PLAY METER

UPDATE EDITION

Volume 6, Number 14 **August 1, 1980**

Atari puts Robbins at dual helm, recruits Belam's S. Breaks

Joseph Robbins will assume duties as co-president of Atari Coin Operated Electronics Games Division after departing July 1 from the post of president of Empire Distributing Inc., a division of Bally Manufacturing in Chicago.

Meanwhile, Shane Breaks was appointed to a newly-created position of international marketing director for the Atari coin-op division.

Breaks' appointment — following close on his promotion to a vice presidency with Belam Export Corp. —was an industry surprise in early June. Breaks had served for three years with the New York coin machine distributor.

In Breaks' new post, he reportedly will be responsible for all overseas sales of Atari coin-op products. As UPDATE went to press, Breaks was in Tokyo and could not be reached for comment. Breaks was reported by *Coin Slot*, London, to be setting up a Tipperary, Ireland base for Atari international sales.

On Robbins' appointment, a June 5 announcement from Atari quoted President Eugene Lipkin in Sunnyvale, California: "I am particularly pleased that Joe hs joined me to manage the expanded administrative and marketing plans for Atari's Coin-Op Division."

Lipkin continued, "His assistance will enable Atari to keep up with the demands of the industry and to devote the creative and business efforts needed to continue our leadership in the marketplace."

INSIDE:

ALLIED LEISURE MAPS A "NEW IMAGE" *Story on page 2.*

BALLY, WILLIAMS SETTLE ONE QUARREL *Story, page 7*

Raymond E. Kassar, chairman and chief executive officer of Atari, Inc., said the co-presidency of Lipkin and Robbins "provides us with outstanding management leadership in a highly competitive business."

Robbins is a well-known 34-year veteran of the coin-op amusement industry. Educated at Yale University in its School of Engineering after service in World War II, he began his industry career in 1946 with a Seeburg distributor in New England and with London Music Co. of Wisconsin.

In 1955 he joined Empire Distributing, Chicago, where he became a partner in 1962, later directing the sale of the company in 1972 to the Bally Corporation. Continuing as CEO at Empire, Robbins was elected to Bally's board of directors, serving as chairman of the executive and auditing committees. He held these posts until he retired from the board in 1978.

A successor to Robbins as president at Empire was expected to be announced a few days after this Update Edition's presstime.

Robbins commented to PLAY METER: "I'm leaving a great company and looking forward to another great company and an even greater challenge."

Breaks entered the coin-op field in 1964. He served as vice president and general manager for Streets Automatic Machine Co. in London for a number of years, and in 1975 he was brought to the United States by Rowe International to direct Rowe game purchasing for domestic markets.

Stern plan: Seeburg buy, videos

Stern Electronics, Inc. has agreed, under the terms of a $2 million plan, to buy certain of the assets of Seeburg Corporation and commence manufacturing jukeboxes under the Seeburg name, announced Gary Stern, president of Stern Electronics.

Prior to that announcement, in early June Stern Electronics confirmed its intention to begin manufacturing video games in the summer.

The proposed Seeburg acquisition —if approved by a federal bankruptcy judge and a majority of Seeburg's unsecured creditors—"will contribute to the continued growth and diversification of Stern Electronics which, since its formation in 1976, has captured almost 20 percent of the world pinball market," said Gary Stern.

He said he foresees no problem in final approval of the agreement and indicated he expects the acquisition to be finalized by mid-August.

Stern production of Seeburg jukeboxes is planned for as early as September.

Prior to the start of production, the Seeburg operation will be moved to Stern's 280,000-square-foot manufacturing facility in Chicago. Solid-state components for Seeburg jukeboxes would be provided by Stern's Elk Grove Village, Illinois-based

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Update Edition

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Allied Leisure taps execs, leases Vectorbeam rights

By RAY E. TILLEY

Allied Leisure Industries, Inc. is pursuing a "new image" with the appointment of two new key personnel, signing of a multi-year agreement with Cinematronics Inc. for use of the Vectorbeam monitor system, and a contemplated new name for the Hialeah, Florida manufacturer, according to an Allied spokesman.

In their new positions at Hialeah are Ed Miller, president and chief operations oficer, and Bill Olliges, executive vice president and vice president of engineering for Allied Leisure. Both officers recently resigned from Taito America to move to the Hialeah posts.

The Allied Leisure pact with Cinematronics, of El Cajon, California, gives Allied rights for several years to the Vectorbeam system, to be used to develop Allied games as well as those developed by Cinematronics.

Joel Hochberg, Allied vice president, said his firm will produce *Rip Off* in a cocktail version of the Cinematronics video game. "Some other possibilities exist in video games, and we are testing on location a game we have developed on our own, that we think will be a great success," the marketing chief told PLAY METER. "We're very satisfied with the tests on one of our own in-house products."

Tom Stroud, chief marketing officer for Cinematronics, termed the agreement with Allied Leisure "a major step forward for both companies. We at Cinematronics feel that both the present and the future belong to the Vectorbeam monitor, and we are excited about sharing it with a company like Allied Leisure. Their new management and engineering teams should make them a major force very quickly," said Stroud.

The *Rip Off* cocktail model was being produced at Allied Leisure's Florida plant for June delivery.

Hochberg said a new name for his firm may be announced soon by its chief officers.

These moves will give "an entirely new image to Allied Leisure. We have people who have expertise from the grassroots level, on up," he said. "Allied Leisure will be a very strong manufacturer in the very near future. Recognized weaknesses have been rectified," Hochberg commented.

The company has also made certain financial arrangements, assuring that "capital is no problem at all," said the Allied officer.

Williams holds strategy confab and spotlights employees

Key personnel of Williams Electronics, Inc. were gathering for the Second Annual Accent on Achievement Conference at the Marriott Lincolnshire Resort in Lincolnshire, Illinois on June 27 and 28.

Ron Crouse, Williams marketing director, said: "This conference is an opportunity for Williams employees to meet in an informal atmosphere to interchange ideas that will form our company strategy. Our theme for this year is 'Meeting the Competitive Challenge — Design-Technology-Quality'."

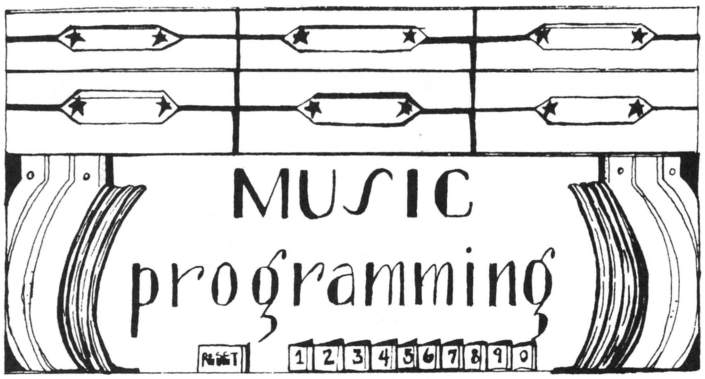
On the evening of Saturday, June 28, the conference was to culminate with a cocktail party and dinner dance. The highlight of the dinner was presentation of awards to some employees "who have made major contributions to Williams' success," Crouse told PLAY METER near the press time for this Update Edition.

AMOA board deadline noted

Candidates for the AMOA Board of Directors must be submitted to the Nominating Committee for Directors not later than July 31.

Each candidate recommended must be endorsed by five members of AMOA in good standing. The term of a director is three years.

Write AMOA at 35 E. Wacker Drive, Chicago 60601.



By Pat Matthews

Program Director
WQUE New Orleans

Cowboys and a lady, country and soul:

More movies move music

The hot summer months are upon us. What that means, musically, is that the product is usually increased (for reasons I have never understood). It also doesn't hurt that the music industry is beginning to become stable again. And that's good news for all of us.

LOVE THE WORLD AWAY — KENNY ROGERS — United Artists UA-X1359-Y

Take a pinch of a ballad, add a measure of Kenny Rogers, and mix smoothly with a hit motion picture—and you've got an obvious hit record. This one's from the smash movie "Urban Cowboy" and has all the standard ingredients of Rogers' never-ending string of chart successes. The only thing lacking on the label is the word "HIT" rubber-stamped on it. At any rate here's my stamp of approval: 10 out of 10. Major crossover indications.

DRIVIN ' MY LIFE AWAY — EDDIE RABBITT — Elektra E-46656-A

Let's try something else from a movie—this time of a totally different vein. The movie in question is "Roadie". The soundtrack runs the gamut from Alice Cooper and Blondie to Asleep At The Wheel. And somewhere in between lies Eddie Rabbitt and a sure-fire hit. I like this record. It's acoustic and has a rock-a-billy feel to it. The lyrics tell the story of everyone who's driven long distances—and will be the new anthem for that great American sect, the truckers. Excellent harmonies highlight this positive country smash with better than average crossover potential: 10 out of 10 on highest chart.

LET MY LOVE OPEN THE DOOR — PETER TOWNSHEND — Atlantic 7217

All indications are that this should be the biggest chart success for any Who group member ever. It's from Townshend's second solo-effort album, "Empty Glass", and believe it or not, is not the cut to get the immediate heavy airplay as an lp cut. However, it's the most commercial tune on the lp. It's very "Who-ish" like the entire lp and is excellently produced by Chris Thoms. Pete Townshend is and always will be the genius behind The Who. This number has him doin all vocals and features Who drummer Kenney Jones on percussion: 8 out of 10 or better.

TAKE YOUR TIME (DO IT RIGHT) — THE S.O.S. BAND —Tabu ZS9 5522

The reports I'm getting from a very reliable national sales source is that this is of the "sleeper" variety like Lipps, Inc.'s "Funky Town". Meaning it has already begun strong regional sales in the East and is about to reach the point where it will explode. Some stores up East can't keep enough in stock. It's tasteful disco—meaning it's well produced, flashy R&B with a good vocal arrangement. This one's definitely too hot to handle. Strong crossover possibilities exist, and I give it a 9 out of 10 overall.

LET ' S GO ' ROUND AGAIN — AVERAGE WHITE BAND — Arista AS 0515

The label's a different one (the AWB haven't any sales success to speak of for the past few years), but the group has remained intact. As unbelievable as it may seem, it's still the same lineup but this time out they've added a new twist! They're better than "Average". They've added some strings to their sound, giving them a "Philadelphia Soul" feel—and the result could be very contagious to the record buyer. The lp is excellent and this is the first of possibly a few singles releases from it. Very up-tempo and very good. A change in direction, maybe, but a positive one. The percussion and horns are vintage AWB. Hooks throughout (even hand-clapping). Eight out of 10 or better.

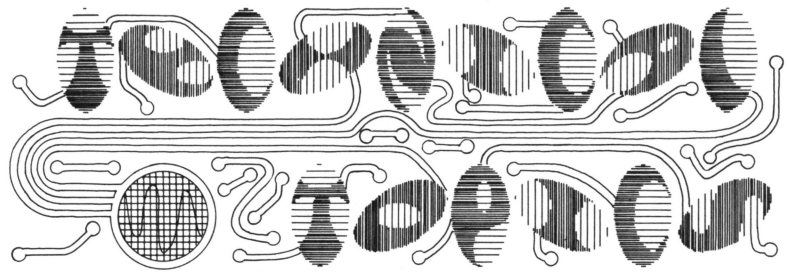
ONE FINE DAY—CAROLE KING —Capitol P-4864

This lady is definitely overdue for a hit. Now, just because she has relied on one of her proven hit compositions, doesn't mean it's not a legit effort. "One Fine Day" has never sounded better, and the acceptance of this record has been phenomenal. It's Carole King at her rockingest best. Yes, she can rock'n'-roll if she wants to: 7 out of 10 or better.

NOTHING TO SAY—RUSSIA—Warner Brothers WBS 49249

The title says it all. Will never sell for obvious reasons. Zilch of zip.

Ed. note — More movie hits on 45s were reviewed by Pat Matthews in PLAY METER, July 15 issue.



By Randy Fromm

Building a score display test fixture is easier, cheaper

Repairing Bally score display units is really pretty easy. Because more operators are now repairing their own score displays, replacement parts (including the glass display envelope itself) have become easier to find and even a little cheaper!

By building this score display test fixture, field mechanics can bring defective modules to the shop for repair. The modules can be repaired and tested without the necessity of having a Bally or Stern game in the shop to use as a test bed. It's easier to fix things sitting down anyway, instead of standing up to work on a score display that's hanging off the back of the litebox insert.

The test fixture checks all of the functions of the score display. To perform the test, the fixture simulates the inputs that are normally provided by the game: +190 volts DC, +5 volts DC, the six-digit strobes, the four-bit code that determines the displayed numeral, latch enable, blanking, and ground.

POWER SUPPLY

The power supply provides the regulated +5 volts DC for the four ICs in the test fixture, and the single IC in the score display module. It also provides the +190 volt supply that fires the display envelope.

This power supply is a bit different from most others that you have probably seen, so be careful when you put it together.

T1 is an 18-volt transformer in a full wave, center tapped power supply configuration. The cathodes of each of two diodes (D1, D2) are connected to the high and low tap of the transformer secondary. The anodes of the diodes are grounded to provide the ground return of the supply. The positive output is taken from the center tap and filtered by primary filter capacitor C1. The unregulated DC is passed to U1, a 5-volt, 1-amp positive regulator. The reference input is grounded, and the +5-volt DC output is filtered further by C2. This capacitor should be located as close to the regulator as possible.

The +190 volt supply is a standard full-wave, bridge rectifier configuration. Diodes D3—D6 rectify the output of T2 and pass it to C3 where it is filtered and sent to teh display module. T2 is a 12-volt, 3-amp transformer that is hooked up *backward* and driven by the 18-volt AC output of T1. With 18 volts as an input on what was once the secondary, the transformer produces about 145 volts RMS at the output (formerly the 117-volt primary).

The 145 VAC output is rectified by the bridge and filtered by C3 to provide the +190 volt supply. R1 is a 25 kohm, 10-watt resistor that quickly discharges the high voltage supply when the unit is switched off.

Without this "bleeder" resistor, it would be possible to get a pretty good tingle when you remove the plug from the score display after testing. The bleeder resistor will discharge the +190-volt supply to safe levels within a few seconds after power is removed from the test fixture. If you are used to working on a display module in a game, you're probably familiar with the shock you often receive if you unplug the module immediately after turning off the game.

Bally uses a 100 kohm bleeder resistor, so it takes quite a bit longer to discharge the high voltage capacitor. If you wait about 15 or 20 seconds before handling the display unit, the shock hazard will be considerably reduced.

Before all you engineers out there give me a hard time about "the follies of overdriving transformers and hooking them up backward and other strange stuff," let me explain the reasons for the design and give some warnings about design limitations.

I looked through every transformer manufacturer's catalog that I could get my hands on, but I was unable to come up with a suitable transformer. All of the high voltage transformers listed were designed as plate transformers for vacuum tubes, and were definitely overkill for the test fixture. Most of them weighed 4 or 5 pounds. The "backward" hookup allows the use of inexpensive and commonly available transformers to provide the necessary voltages.

Of course, if you can find a proper transformer, don't hesitate to use it. Because the 12-volt transformer is being overdriven by the 18-volt output of T1, the transformer will get quite hot if left on continuously. This test fixture should be considered an intermittant duty fixture only, and should not be used to "cook" displays. If you want to have a fixture that can be left on continuously, you'll have to come up with a transformer (145 volts and at least 250 milliamps) somewhere and hook it up in a more conventional way, using the primary as the primary and connecting it in parallel with the primary input of T1. (If you do find a good transformer to use, let me know and I'll pass the information along to the other readers.)

DIGIT SCAN

During normal operation in the game, each of the six digits in the score display is illuminated individually, in sequence. The action is so fast, we see it as if all of the digits are on at the same time. The test fixture does the same thing. U2 is a 555 timer IC that provides the clocking signal for the digit strobe circuit. Pontiometer R3 can be used to slow down the speed of the digit scan, so shorted digit driver transistors and bad display envelopes can be spotted

easily. Try it and you'll see what I mean!

Decade counter U3 (7490) is clocked by the output of U2. The binary coded decimal output of U3 is decoded by U4 (7442) to provide a one-of-ten output. The individual outputs are used to strobe the digits of the display unit one at a time. Because the display has six digits and the counter and decoder are set up for a count sequence of ten, four of the outputs of U4 are unused. Six of the U4 outputs are inverted by hex converter U5 (7404) to provide the proper output to drive the score display. The outputs of U5 are wired to connector J1 for interface with the display module.

BCD INPUTS

The score display knows what numerals to show by the four-bit code at the inputs at pins 16-19.

In order to make the test fixture as inexpensive and easy to build as possible, a simple system of four switches is used to set up the binary coded decimal (BCD) input to the display module. By flipping the switches in different combinations, all ten of the numerals (0—9) can be displayed. S2 through S5 are connected to pull-up resistors on one side and to ground on the other.

When a switch is open, a high signal is sent to the input of the display unit. Closing a switch grounds the pull-up and brings the signal low. I have found it much easier to troubleshoot displays with a static numeral display, as compared to the "counting" test mode available when using a game as a test bed for repairs.

LATCH ENABLE, BLANKING

The latch enable switch (S6) is connected to pull-up resistor R6 on one side and ground on the other. As long as the switch is open, the latch enable is high and the score display will reflect any change in the numeral input code. I.e., changing the input code from 0111 to 1000 will change the display from 7's to 8's. Closing S6 brings the latch enable low, locking in the last code presented to the BCD inputs.

Any further change at the BCD inputs will now be ignored, and the score display module will continue to show the numeral that was displayed when the latch enable was brought low.

Blanking switch S7 and pull-up resistor R7 operate in much the same way as the latch enable switch. When S7 is open, the blanking signal is high and the display is turned off. Closing S7 brings the blanking signal low, allowing the display module to show the numeral indicated by the BCD code at the inputs.

Note that the blanking input works by making all of the segment inputs low. The blanking signal does not affect the digit strobe in any way.

CONSTRUCTION

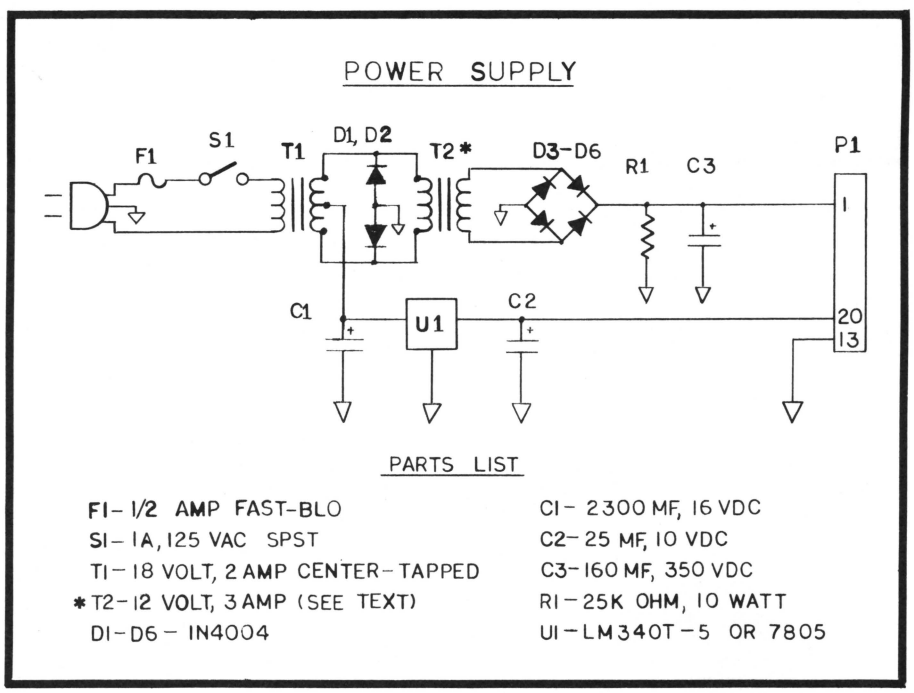
I will freely admit that I'm not too skilled at making projects that are cosmetically appealing. My score display test fixture is made from a small piece of vectorboard on which the four ICs are mounted, screwed to an old piece of 3/8-inch plywood. Terminal strips are mounted for point-to-point construction of the 5 and 190 volt power supplies. The voltage regulator is operating at a fraction of its rated output current, so it's not necessary to provide a heat sink for it.

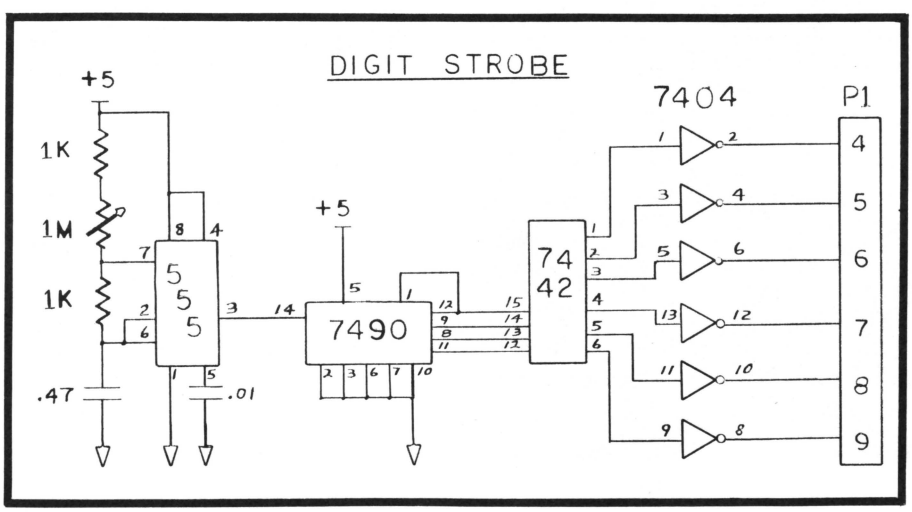
The two transformers are also screwed to the plywood, as well as the fuse holder. Bleeder resistor R1 should be mounted with space on all sides to help dissipate its heat. With thge proper high voltage transformer the physical size of both transformers can be reduced and the whole unit installed in a chassis box. In such a case, T1 can be rated as low as 500 milliamps, which is quite small.

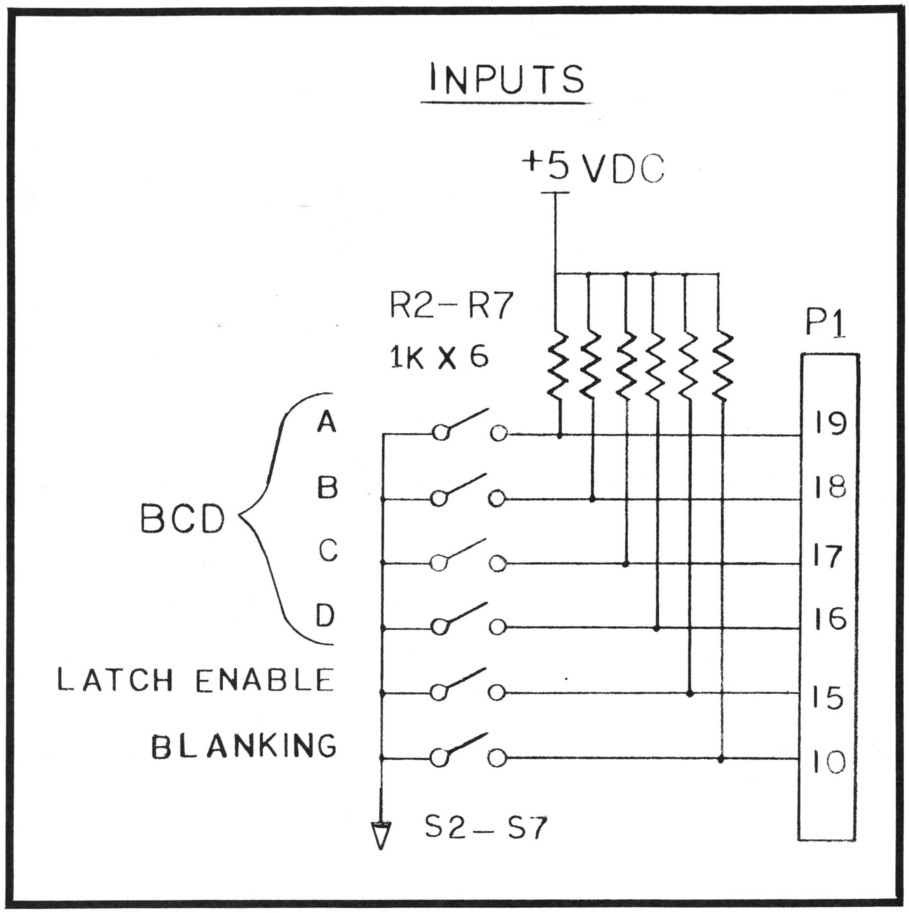
The four BCD input switches, and the latch enable and blanking switches (S2—S7) are all on a single unit. THis dual in-line switch package is familiar to all of us as the "option switches" found on most every game produced today. By using this switch, construction is simplified and costs are reduced over individual toggle switches.

Simply ground one side of all the switches, and solder pull-up resistors to the others. Of course, a neat little test fixture with a row of six toggle switches looks better and is easier to use. But I just can't see spending a buck each for mini-toggle switches. Then again, I save used paper bags.

Another slick way to provide the BCD input is to use an angle encoder from Midway's *Sea Wolf II* game. The angle encoder normally provides







a binary output to the computer, telling it where to shoot the torpedo. We can use this same binary information to operate the "numeral selection," or BCD input section of the test fixture. The angle encoder is turned as you would a potentiometer, to display the different numerals on the unit under test. Unfortunately, the part costs around $18. Switches known as BCD thumbwheels are also available. These switches provide the same output as the angle encoder, a four-bit code that corresponds to the decimal digit shown on the wheel. They are rather difficult to mount, however, and since I can't figure out a way to nail one to a piece of plywood, I don't use them.

One last word of caution to those of you who might be unfamiliar with projects that use the 7490 IC....The power pins on this chip are not the same as the "corner power" connections of just about every other chip. For the 7490, the +5 volt supply goes to pin 5, and ground pin is pin 10. Be observant when making the power connections! The same chip is available with corner power pins, but it's harder to find and more expensive. If you feel like going for it, the number is 74290. °

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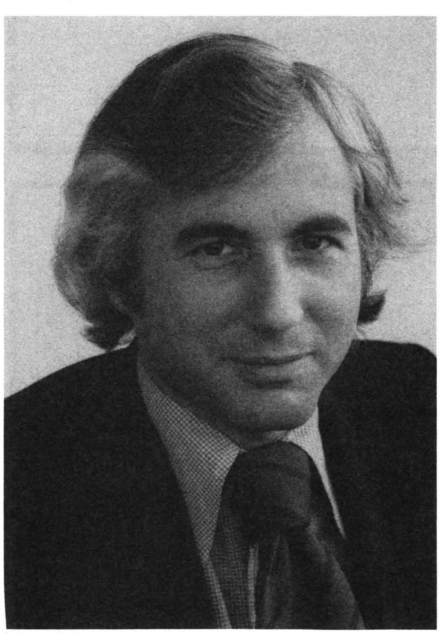
continued from page 1

subsidiary, Universal Research Laboratories, Inc., which has been relocated in a new 42,000-square-foot manufacturing and assembly plant. That facility has the capability for expansion for an additional 50,000 square feet, according to Stern.

URL, Inc. also provides solid-state components for all Stern pingames and O.E.M. solid-state products to outside companies.

Gary Stern said the Seeburg acquisition will broaden Stern Electronics' marketing capability and contribute to overall company sales. "We have committed some $5 million to the formation of a new jukebox division and anticipate great success for the Seeburg business," he added. "Because we also manufacture pinball games, the Seeburg jukebox will not have to stand on its own. We will be in the flexible position of responding and adjusting to changing market demands in the coin-operated entertainment industry."

Creation of a new jukebox division will result in the formation of a new Stern jukebox engineering department. However, there will be no major reorganization of company management, according to Gary Stern. Larry Siegel, Stern vice president for sales/administration, will be directly responsible for overall production of the Seeburg division. Stephen Kaufman will remain as Stern's vice president of marketing; Ed Polanek will continue as president of Stern's URL subsidiary.



Gary Stern

Stern pins to asthma unit

Stern Electronics, Inc. has donated four new pinball games to the National Jewish Hospital/National Asthma Center in Denver, announced Gary Stern, company president.

The four games include two of Stern's recent best seller *Galaxy* and two, popular Muhammad *Ali* games. The games will be maintained and serviced in the patient lounge by Continental Divide Co., a Stern distributor in the Denver area.

The NJH/NAC is an acclaimed treatment center for persons from throughout the U.S. suffering from asthma, tuberculosis, emphysema, chronic bronchitis and other respiratory diseases and immunological disorders. Opened in 1899, the pioneering medical center treats patients without regard to race, creed or ability to pay.

In 1979, Gary Stern was named to the NJH/NAC National Society of Fellows, an organization comprised of individuals, foundations and corporations whose significant annual contributions merit recognition.

Antitrust falls out-of-court

Bally Manufacturing Corp. and Williams Electronics Inc. have settled all of their disputes out-of-court relating to the manufacture and sale of slot machines. An announcement by the respective legal counsellors said the settlement includes a $1.4 million payment by Bally to Williams, a subsidiary of XCOR International Inc.

Antitrust litigation pending between Bally and Williams in federal court in Chicago and in state court in New Jersey has been dismissed, said the May 27 announcement. Patent litigation which has been brought by Bally against Williams, pending in Chicago, was not affected by this settlement.

Legal spokesmen for both Williams and Bally agreed that their settlement over slot machines used in Atlantic City and elsewhere "does not reflect on the merits of Williams' claims against Bally or Bally's claims against Williams." Rather, both firms stated they wished "to bring this lengthy and expensive litigation to a conclusion."

Glenn Seidenfeld, secretary and general counsel of Bally, told PLAY METER, "All matters pursuant to antitrust are dropped."

The attorney explained that Williams had alleged that Bally's sale of slots in Nevada and ownership of the Park Place casino-hotel in Atlantic City violated antitrust laws.

Bally had counter-claimed that Williams conspired with other slot machine manufacturers to mislead the New Jersey Casino Control Commission so it would adopt regulations limiting a casino's purchase of slots to 50 percent from one manufacturer.

Bally, however, received a waiver from the commission on that rule for Park Place, reports said.

The legal action, filed in Chicago and New Jersey, included claims of $30 million by Williams and $60 million by Bally.

A federal grand jury inquiry into possible antitrust violations in the gaming equipment industry began in May of 1978. Both Williams and Bally indicated their support of the federal probe. [PLAY METER, March, 1979, page 43.]

The $1.4 million settlement with Williams was recorded by Bally Manufacturing as a charge against earnings for the first quarter of 1980, ended March 31.

ICMOA pool tourney

The Hilton Hotel in Peoria, Illinois was the site of the ICMOA Annual 8-Ball Pool Tournament on April 27. A full house of spectators saw the best pool players in Illinois bid for top-place money of $1,000 for the men's division.

Eighty locations sent two men ea[illegible]'e 36 locations sent ladies to [illegible]heir division's $500 first pri[illegible].ey. In all, the prize awards amounted to $5,600.

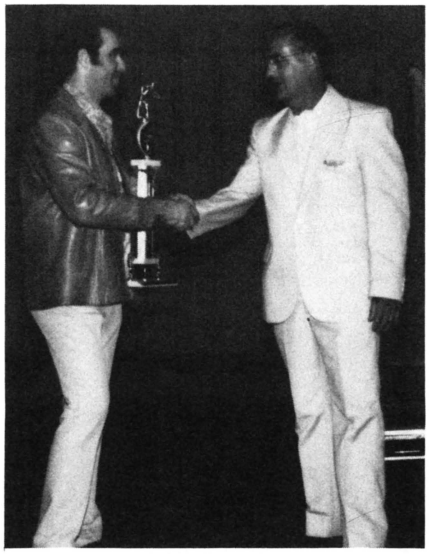
The tournament was coordinated by Ward P. Brown and David Marik of Rockford Star Games, Inc. headed the Pool Tournament Committee of ICMOA.

Tournament play began at 10:30 a.m., using twelve Dynamo tables, and ended at 8 p.m. with the following winners:

Men's Division: 1st place—Al Koklys from Esto's Lounge in Forest Park (Metropolitan Music operator); 2nd place—Dana Hallet from Friendly Tap in Polo (Blackhawk Music, operator).

Women's Division: 1st place—Mary Ann Blean from Lake View Country Club in Sterling (Blackhawk Music, operator); 2nd place—Nancy Mangolavite of the Canopy in Springfield area (Kramzar Amusements, operator).

Presenting trophies and cash awards to winners was ICMOA President Walton Lowry of Pittsfield.



Al Koklys takes ICMOA first place trophy, presented by Walton Lowry.

On the move

Fox promoted by Kurz-Kasch

Kurz-Kasch, Inc., of Dayton, Ohio recently announced the promotion of James D. Fox to national amusement products sales manager for the company's Electronics Division. Mr. Fox joined Kurz-Kasch in April of 1979 as its production manager.

Kurz-Kasch's Electronics Division manufactures and markets a test fixture, program cards for most video and pinball games, a line of digital logic probes and pulsers, as well as Signature Analyzer, a device used to isolate faulty components in microprocessor-controlled equipment. The Dayton firm's president of John N. Taylor, Jr.

Kapoun to direct R&D at Stern

Stern Electronics, Inc. has appointed Robert Kapoun as director of engineering. Formerly a chief engineer and employee of the Seeburg Corporation for 18 years, Kapoun's responsibilities at Stern will include staff administration and supervision of engineering department research and development.

Kapoun is a graduate of the Illinois Institute of Technology, Chicago, and resides with his wife and daughter in suburban Glenview, Illinois.

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Gene Roelle, field engineer at Stern Electronics, Chicago, recently returned from Europe where he conducted a series of service school seminars for Stern distributors.

Participating distribs included Erick Schneider, Hamburg, Germany, April 26; Ets C. Van Brabant, Antwerp, Belgium, April 30; London Coin, London, England, May 1; Ugo Posticci, Vienna, Austria, May 4; Bally France, Paris, May 8; Rolf Ohlander, Stockholm, Sweden, May 10; Raha, Helsinki, Norway, May 12; and Novomat, Basil, Switzerland, May14.

As a field engineer, Roelle visits Stern distributors worldwide to offer technical counsel on equipment operations and maintenance. In addition, he is responsible for the administration of Stern's toll-free service hotline headquartered in Chicago and international distribution of technical bulletins.

Classified

WANTED: Display glass for EXIDY Circus. RUSTY'S PIZZA PARLOR, 232 W. Carrillo St., Santa Barbara, CA 93101. Call 805/963-0648.

1250 ELECTRO MECHANICAL PINBALLS WANTED immediately. Will buy any quantity. Cash on spot. Call 24 hours– 213/336-2393.

FOR SALE: Brandt Model 925 Coin Sorter with 3 bagging attachments and two double drawers. All interested, call: 518/523-2456.

10 COCKTAIL DICE MACHINES – Bargain priced. Phone 1-919-725-0476.

WANTED: COIN REJECTORS [Singapore 20 cts.] Also interested to buy complete T.V. game board. Write to: M/S LIM CHENG KOAN Holdings PTE, Ltd., 29 Hong Kong Street, SINGAPORE 0125.

FOR SALE: Nintendo Space Invader with 3 ways to play. Almost like new, best of all the Space Invader models. Special prices. Call SAL – 201/926-0700. UNITED STATES AMUSEMENTS, New Jersey Office, 2 W. Northfield Road, Livingston, NJ 07039.

WANTED: Used Sircoma Draw Pokers and draw 80 Pokers. Reply to SANDERS AND SON Distributing Co., 912 North Main St., Shelbyville, TN 37160.

FOR SALE: Naamco SHOOTAWAY, $1400. Extra parts. Tel.: 301/881-1663. Chip Linville.

WANTED: 4" x 5" Coin Mechs [25 c] for National box. Also timer assembly parts for Norton Industries box. MIDWEST ARCADE, 2614 Shelby Street, Indianapolis, Ind. 46203. Tel.: 317/783-5900.

WILL NED Vigil in Hot Springs, Arkansas please give me a call! I lost your phone no. Call collect: ROGER SIMALE, Jackpot Amusements: 312/849-4041.

PINBALL TOURNAMENTS: If you have a location with a minimum of 15 pinballs, please write us. PINBALL ASSOCIATION OF AMERICA, INC., 20 W. Washington, Suite 1432, Chicago, Illinois 60602.

FOR THE BEST IN USED FLIPPERS, VIDEO GAMES and arcade equipment at the cheapest prices, see our regular ad in the classified section of Play Meter Magazine. NEW ORLEANS NOVELTY COMPANY, 1055 Dryades Street, New Orleand, La. Tel.: 504/529-7321.

SCHOOLS FOR GAMES & MUSIC one to three week courses. Phonos, video, electro-mech and logic flippers. By schematics! CAL'S COIN COLLEGE, P.O. Box 810, Nicoma Park, Oklahoma 73066. Tel.: 405/769-5343.

D.R.A PRICE GUIDE offers complete up-to-date information on price values of used equipment. For sample booklet write–DISTRIBUTORS RESEARCH, 262 N.W. 29th St., Miami, Fla. 33127.

FOR SALE: Two well-established amusement centers. Excellent terms–good leases–good net. Adequate machinery for one or two more locations. Contact OLLILA ENTERPRISES, INC., 4376 River Road, N., SALEM, OR 97303.

WANTED: Backglass for Chicago Coin 'Holiday' bowling alley. 'R' SOUND, 1176 Whittier Avenue, Andalusia, Penna. 19020. Tel.: 215/639-1059.

FOR SALE: Boards for Electra Flying Fortress. Schematics and front glass also available. $100. LEISURE INDUSTRIES, 3827 Grand Blvd., East Chicago, Ind. 46312.

FOR SALE: Invader Cocktail Tables, like new, full color mask, $795. COIN AMUSEMENTS CO., E. 312 Route # 4, Paramus, NJ 07652. Tel.:201/488-8488.

WANTED: Operators, distributors, anyone looking to start their own business. "COLORSCOPE" a new concept in personality testing. Coin-operated–small size– low cost – for ARCADES, MALLS & DISCOUNT STORES etc. ZYTRONICS, INC., 8823 SW 129th Terr., Miami, Fla. 33176. Tel.: 305/251-3775.

FOR SALE: Indy 800 – $1400. Indy 400 – $1200. Both excellent condition. Many shopped electro-mechanical pins $200 $300. SS Night Rider, $500. TORRANCE, Ca. Tel.: 213/371-0824.

WANTED: THE UNTOUCHABLES, driving game by Kasco. MEMORY LANE ARCADE, 588 Cass St., Frankenmuth, MI 48734. Tel.: 517-652-8881.

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